

Name: _____

Date: _____

How Many???

Answer Key

For each of the following problem, write the correct metric conversion on the line provided. Don't forget to convert into meters FIRST!

How many...

1. 5 centimeters (cm) = .05 meters (m) =
50 millimeters (mm)

2. 26 decimeters (deci) = 2.6 meters (m) =
.0026 kilometers (km)

3. 7 hectometers (hm) = 700 meters (m) =
70000 centimeters (cm)

4. 40 decameters (deca) = 4000 decimeters (deci)

5. 8000 millimeters (mm) = .008 kilometers (km)

6. 650 centimeters (cm)= .65 decameters
(deca)

7. 1875 hectometers (hm)= 1875000
decimeters (deci)

8. 9 kilometers (km)= 900000 centimeters
(cm)

9. 333 millimeters (mm)= 33.3 centimeters
(cm)

10. 60 centimeters (cm)= .006 hectometers
(hm)

Make up two of your own metric conversions:

*1 *(Answers will vary)*

*2

Summative Assessment – Measuring to the Nearest Metric Unit and Making Conversions

1. What would be the best unit to measure the length of a paperclip?

- ☐ meters
- ☒ centimeters
- ☐ millimeters
- ☐ hectometers

2. What would be the best unit to measure the length of a dining room table?

- ☒ meters
- ☐ centimeters
- ☐ millimeters
- ☐ hectometers

3. How many millimeters are in a meter?

- ☐ 10
- ☐ .01
- ☐ 100
- ☒ 1000

4. How many meters are in a hectometer?

- ☐ 10
- ☐ .01
- ☒ 100
- ☐ 1000

5. What fraction of a meter is a centimeter?

- ☐ $\frac{1}{10}$
- ☒ $\frac{1}{100}$
- ☐ $\frac{2}{1000}$
- ☐ $\frac{1}{1000}$

6. How many centimeters are in 3 meters?

- ☐ 3000
- ☐ 3
- ☐ 0.300
- ☒ 300

7. How many millimeters are in 10 centimeters?

- ☐ 0.01
- ☒ 100
- ☐ 1000
- ☐ 10,000

Brief Constructed Response

Susan has a pencil that measures 15 centimeters (cm). Her brother, Louis, has a pencil that measures 154 millimeters (mm).

Step A.

Whose pencil is longer?

Louis'

Step B.

Explain how you know your answer is correct. Use what you know about measurement and converting metric measurements to explain why your answer is correct. Use words and/or numbers in your explanation.

(Possible answer cue includes that the 15 centimeters were converted to millimeters and 150 millimeters are less than 154 millimeters. Therefore Louis' pencil is longer.)

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Recording Measurements Chart

Name of Item	How many meters long is the item?	How many decimeters long is the item?	How many centimeters long is the item?	How many millimeters long is the item?
Distance from starting line- Cotton Ball 1				
Distance from starting line- Cotton Ball 2				
Distance from starting line-				

Name of Item	How many meters long is the item?	How many decimeters long is the item?	How many centimeters long is the item?	How many millimeters long is the item?
Cotton Ball 3				

COOL POOL

The ABC Pool Company wants to build a pool in your school's back lot. The only problem is they are not sure how to measure out the hole they'll need to dig. Can you help?



COOL POOL

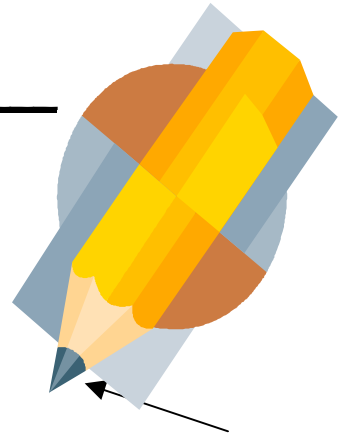
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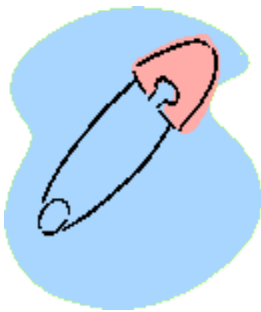


Which Unit Works Best?

Directions: Write the unit of measurement that would work the best to measure each of the items below.













Name _____

Writing about Math !!!

Answer the following question in your math journal. Be sure to answer the question using specific examples of what we have discussed today and yesterday:

Why do we need more than one unit of measurement?
Why isn't it enough just to have a meter stick?

Writing about Math !!!

Answer the following question in your math journal. Be sure to answer the question using specific examples of what we have discussed today and yesterday:

Why do we need more than one unit of measurement?
Why isn't it enough just to have a meter stick?